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BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
IN AND FOR THE STATE OF UTAH

IN THE MATTER OF THE REQUEST FOR AGENCY
ACTION OF SUMMIT OPERATING, LLC, FOR AN
ORDER ESTABLISHING A 320-ACRE DRILLING
AND SPACING UNIT FOR A HORIZONTAL WELL
IN AND THE PRODUCTION OF OIL, GAS, AND
OTHER HYDROCARBONS FROM THE GREEN RIVER
FORMATION IN THE WEST HALF OF SECTION 16,
TOWNSHIP 7 SOUTH, RANGE 21 EAST,
SALT LAKE MERIDIAN, UINTAH COUNTY, UTAH.

DOCKET NO. 2011-003 CAUSE NO. 270-01

TAKEN AT: Department of Natural Resources
1594 West North Temple, Room 1040
Salt Lake City, Utah

DATE: Thursday, February 24, 2011

TIME: 9:09 a.m. to 10:02 a.m.

REPORTED BY: Michelle Mallonee, RPR

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James T. Jensen, Chairman
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Emily Lewis - Division Attorney
Michael S. Johnson - Board Attorney

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I N D E X

WITNESS	PAGE
Ellis Peterson	
Direct Examination by Mr. Schwendiman	8
Cross-Examination by Mr. Doucet	26
Carl Kendell	
Direct Examination by Mr. Schwendiman	29
Cross-Examination by Mr. Hill	40
Clint Dworshak	
Direct Examination by Ms. Lewis	43
Lavonne Garrison	
Comments by Lavonne Garrison	45

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Docket No. 2011-003 Cause No. 270-01

Thursday, February 24, 2011

(The proceedings began at 9:09 a.m.)

CHAIRMAN JOHNSON: Should we go ahead, then, with the Minerals Regulatory Program Rules -- or let's do Summit Energy. Let's do Summit Energy, then, okay.

Docket No. 2011-003 Cause No. 270-01 - In the Matter of the Request for Agency Action of SUMMIT OPERATING, LLC, for an Order Establishing a 320-Acre Drilling and Spacing Unit for a Horizontal Well in and the Production of Oil, Gas, and other Hydrocarbons from the Green River Formation in the West Half of Section 16, Township 7 South, Range 21 East, Salt Lake Meridian, Uintah County, Utah.

Mr. Schwendiman, you are representing the petitioner?

MR. SCHWENDIMAN: Yes, Mr. Chairman. Just waiting for the projector to come up.

CHAIRMAN JOHNSON: Okay.

Ms. Lewis, you are representing the Division?

MS. LEWIS: Yes, I am.

CHAIRMAN JOHNSON: Okay. All right.

So Mr. Schwendiman, whenever you would like to proceed, please go ahead.

MR. SCHWENDIMAN: Thank you, Mr. Chairman,

1 Members of the Board. Can you hear me?

2 CHAIRMAN JOHNSON: Move it up a little bit. Mr.
3 Gill is always straining to hear.

4 MR. SCHWENDIMAN: Is this better?

5 MR. GILL: Yes.

6 MR. SCHWENDIMAN: For the record, my name is
7 Jeremy Schwendiman. I'm a licensed attorney in the state
8 of Utah. I represent Summit Operating, LLC, here today.
9 Summit is the operator of State Lease ML40904, which
10 encompasses the west half of Section 16, Township 7
11 South, Range 21 East, Salt Lake Meridian, Uintah County,
12 Utah. This is approximately 16 miles due south of Vernal
13 City, Utah. The west half of Section 16 contains
14 approximately 320 acres.

15 Within the past two to three years, the
16 neighbors of Summit on both the west and the east sides
17 have begun to use horizontal drilling technology to
18 extract hydrocarbons in the area. It has proven to be a
19 very effective and efficient way to get to the
20 hydrocarbons of the particular formations.

21 Summit believes that on its acreage it would
22 also like to utilize this technology to get to the
23 hydrocarbons, believing that it will reduce the number of
24 vertical wells it will have to drill. However, the
25 general spacing rules in Utah for horizontal wells

1 require 640 acres to drill one. Therefore, Summit comes
2 to the Board today seeking a 320-acre drilling and
3 spacing unit, which will encompass the entirety of the
4 lease.

5 Today I have two witnesses I'd like to present
6 to the Board. First, Mr. Ellis Peterson, senior
7 petroleum engineer for Summit Operating, will testify as
8 to the engineering of the area, the potential drainage,
9 as well as the leases and the surrounding areas of
10 Summit's acreage.

11 Second, Mr. Carl Kendell, geologist for Summit
12 Operating, will testify as to the formations, the
13 structures, the geological nature of the site, and the
14 ability to reach hydrocarbons on the leased acreage.

15 So if there are no preliminary questions, I
16 would ask that Mr. Peterson and Mr. Kendell be sworn in
17 at this time.

18 CHAIRMAN JOHNSON: Let's do that, please.

19 THE REPORTER: Will you raise your right hands,
20 please.

21 You and each of you do solemnly swear the
22 testimony you are about to give will be the truth, the
23 whole truth, and nothing but the truth so help you God?

24 (The witnesses answered in the affirmative.)

25 MR. SCHWENDIMAN: As expert witnesses.

1 CHAIRMAN JOHNSON: As you introduce each one,
2 you can go through their experience and credentials.
3 Let's address expert status at that time.

4 MR. SCHWENDIMAN: All right. That's fine.
5 Let's start with Mr. Peterson.

6 ELLIS PETERSON,
7 Having first been duly sworn,
8 was examined and testified as follows:

9 DIRECT EXAMINATION

10 BY MR. SCHWENDIMAN:

11 MR. SCHWENDIMAN: Mr. Peterson, could you please
12 state your name for the record.

13 MR. PETERSON: Ellis Peterson.

14 MR. SCHWENDIMAN: Are you affiliated with Summit
15 Operating?

16 MR. PETERSON: Yes. I'm an employee of Summit
17 Operating.

18 MR. SCHWENDIMAN: How long have you worked for
19 Summit?

20 MR. PETERSON: Approximately 16 months.

21 MR. SCHWENDIMAN: Could you please briefly
22 describe your responsibilities with Summit?

23 MR. PETERSON: My title is Senior Petroleum
24 Engineer. I am responsible for providing technical
25 support for managers and other employees. I am

1 responsible for evaluating, planning, and recommending
2 projects to develop oil and gas. I also help coordinate
3 land activities related to the oil and gas operations.

4 MR. SCHWENDIMAN: Please provide a brief
5 explanation of your educational background and experience
6 as a petroleum engineer.

7 MR. PETERSON: I graduated with a bachelor of
8 science in field engineering from the University of Utah.
9 And I have been employed continuously as a petroleum
10 engineer for over 30 years.

11 MR. SCHWENDIMAN: Are you certified by any
12 professional organizations?

13 MR. PETERSON: I am registered in Utah and
14 Wyoming as a professional petroleum engineer.

15 MR. SCHWENDIMAN: Have you testified before any
16 courts or state boards before on matters relating to
17 petroleum engineering?

18 MR. PETERSON: Yes. I have given testimony as a
19 petroleum engineer in proceedings in Texas, Wyoming, and
20 Montana.

21 MR. SCHWENDIMAN: And are you familiar with the
22 subject lands involved in Summit's application?

23 MR. PETERSON: Yes.

24 MR. SCHWENDIMAN: Mr. Chairman, I would ask that
25 the Board recognize Mr. Peterson as an expert in the

1 field of petroleum engineering and as someone
2 knowledgeable about the subject lands.

3 CHAIRMAN JOHNSON: Ms. Lewis?

4 MS. LEWIS: No objection.

5 CHAIRMAN JOHNSON: Does the Board have any
6 questions or objections?

7 Then we'll recognize him as an expert as you've
8 asked.

9 MR. SCHWENDIMAN: Thank you, Mr. Chairman.

10 Mr. Peterson, how long has Summit operated oil
11 and gas wells in the state of Utah?

12 MR. PETERSON: For over eight years.

13 MR. SCHWENDIMAN: Does Summit operate other
14 wells in the Uinta Basin, and if so, approximately how
15 many?

16 MR. PETERSON: Yes, they do. Summit operates 23
17 wells in the Uinta Basin.

18 MR. SCHWENDIMAN: Is Summit properly licensed to
19 conduct business in the state of Utah?

20 MR. PETERSON: Yes.

21 MR. SCHWENDIMAN: What process have you done to
22 decide that a horizontal well would be beneficial on
23 subject acreage?

24 MR. PETERSON: I estimated the potential oil
25 recovery from a horizontal well at this location and

1 developed a notional production forecast to recover the
2 estimated oil reserves. I estimated the cost of a
3 horizontal well, then completed an economic analysis to
4 quantify the potential financial benefit to the working
5 interest owners.

6 MR. SCHWENDIMAN: We would like to start with
7 Exhibit 1, then.

8 Mr. Peterson, do you recognize Exhibit 1?

9 MR. PETERSON: Yes.

10 MR. SCHWENDIMAN: Have you examined this
11 document, and are you familiar with it?

12 MR. PETERSON: Yes.

13 MR. SCHWENDIMAN: Could you please explain
14 Exhibit 1 and how it was generated?

15 MR. PETERSON: Exhibit 1 is a photocopy of a
16 Division of Oil, Gas and Mining Form 9 Sundry Notice,
17 requesting that operatorship of subject lands be
18 transferred to Summit Operating.

19 MR. SCHWENDIMAN: Why is this exhibit important?

20 MR. PETERSON: It shows that Summit Operating
21 assumed operatorship of the well located in and leases
22 covering the west half of Section 16, Township 7 South,
23 Range 21 East on August 1, 2005.

24 MR. SCHWENDIMAN: And was this change of
25 operatorship approved by the Division of Oil, Gas and

1 Mining?

2 MR. PETERSON: Yes.

3 MR. SCHWENDIMAN: Is Summit properly bonded with

4 the state of Utah for the west half of Section 16?

5 MR. PETERSON: Yes.

6 MR. SCHWENDIMAN: To the best of your knowledge,

7 is this exhibit accurate?

8 MR. PETERSON: Yes.

9 MR. SCHWENDIMAN: I'd like to move on to Exhibit

10 2, then.

11 Mr. Peterson, do you recognize Exhibit 2?

12 MR. PETERSON: Yes.

13 MR. SCHWENDIMAN: Was the exhibit created by you

14 or under your supervision?

15 MR. PETERSON: Yes.

16 MR. SCHWENDIMAN: What does this map show?

17 MR. PETERSON: This is a lease plat showing the

18 subject 320-acre lease that's operated by Summit

19 Operating and the leases and units located adjacent to

20 the property, which are controlled by other operators.

21 MR. SCHWENDIMAN: Could you please point out for

22 the Board where exactly Summit's lease is on this map?

23 MR. PETERSON: Summit's lease is the west half

24 of Section 16 and is colored yellow on the map.

25 MR. SCHWENDIMAN: Who owns the minerals of

1 Summit's lease?

2 MR. PETERSON: The state of Utah.

3 MR. SCHWENDIMAN: And who administers those
4 minerals?

5 MR. PETERSON: Utah School Institutional Trust
6 Lands Administration, also known as SITLA.

7 MR. SCHWENDIMAN: Mr. Peterson, could you please
8 explain what the green areas on this map represent?

9 MR. PETERSON: The green areas represent lands
10 that are operated by MAR/REG Oil. MAR/REG is listed with
11 the Division of Oil, Gas and Mining as the operator of
12 record. The interest owners of the green areas were
13 determined through researching county records and from a
14 list of owners provided by MAR/REG.

15 MR. SCHWENDIMAN: Have those owners, royalty
16 interest owners, and operators been notified of this
17 request?

18 MR. PETERSON: Yes.

19 MR. SCHWENDIMAN: Mr. Peterson, could you please
20 explain the gray areas on this map.

21 MR. PETERSON: All right. These larger gray
22 areas represent two federal units, the Brennan Bottom
23 unit to the left, and the Johnson Bottom to the right.
24 QEP Energy Company is listed with the federal government
25 as operator of both of these units.

1 The interest owners of the gray units were
2 determined through researching the unit file at the BLM,
3 as well as county records.

4 MR. SCHWENDIMAN: And were the operators,
5 royalty owners, and interest owners of those units
6 notified of this request?

7 MR. PETERSON: Yes, they were.

8 MR. SCHWENDIMAN: Does Summit operate any wells
9 portrayed on this map?

10 MR. PETERSON: Yes. Summit operates one well on
11 the subject lease. It is named the State 14-16. It is
12 located in the southwest-southwest corner of Section 16.

13 MR. SCHWENDIMAN: Are there any horizontal wells
14 portrayed on this map?

15 MR. PETERSON: A number of horizontal wells have
16 been drilled in the adjacent QEP Energy operated units.
17 Those horizontal wells are shown on the map as lines
18 connecting two dots, with the larger connected dot
19 representing the surface location, and the smaller
20 connected dot representing the bottom hole location of a
21 horizontal well.

22 Horizontal wells depicted on the map as having
23 non linear trajectories are wells for which the deviation
24 surveys were made available to the public. Utah Division
25 of Oil, Gas and Mining provided bottom hole locations but

1 not the deviation details for horizontal wells depicted
2 with linear trajectories, those -- one in Section 17,
3 Section 21, and Section 22.

4 CHAIRMAN JOHNSON: Mr. Peterson, would you make
5 sure you use your microphone.

6 MR. PETERSON: I sure will, thanks.

7 CHAIRMAN JOHNSON: Thank you.

8 MR. SCHWENDIMAN: Mr. Peterson, why is this
9 exhibit important?

10 MR. PETERSON: It illustrates that the
11 state-owned minerals and the Summit-operated lease is
12 sandwiched between two federal units, both of which use
13 horizontal wells to exploit the oil reserves. It also
14 shows that other companies do believe that horizontal
15 wells are an efficient way to recover oil in this
16 particular area.

17 MR. SCHWENDIMAN: To the best of your knowledge,
18 is this exhibit accurate?

19 MR. PETERSON: Yes.

20 MR. SCHWENDIMAN: Thank you. We'd like the move
21 to Exhibit 3.

22 MR. JENSEN: Counsel, do you want to move on
23 Exhibits 1 and 2, as well, as you are doing it?

24 MR. SCHWENDIMAN: I was going to have them all,
25 at the end of Mr. Peterson's testimony, put into the

1 record. But I can individually put them in.

2 MR. JENSEN: Maybe I misunderstood. I thought I
3 just heard you move for Exhibit 3 to be admitted.

4 CHAIRMAN JOHNSON: No. I think he's just
5 changing to Exhibit 3.

6 MR. SCHWENDIMAN: Move on to Exhibit 3.

7 CHAIRMAN JOHNSON: I'm sorry. I told you I
8 heard you wrong.

9 MR. SCHWENDIMAN: That's okay.

10 MR. JENSEN: Thank you.

11 MR. SCHWENDIMAN: Mr. Peterson, do you recognize
12 Exhibit 3?

13 MR. PETERSON: Yes.

14 MR. SCHWENDIMAN: Was this exhibit generated by
15 you or under your supervision?

16 MR. PETERSON: Yes.

17 MR. SCHWENDIMAN: How was this image generated?

18 MR. PETERSON: This picture is an expanded
19 display of Exhibit 16 that shows the details of the
20 planned horizontal wellbore.

21 MR. SCHWENDIMAN: Would you please explain
22 Exhibit 3 for the Board.

23 MR. PETERSON: Yes. The west half of Section
24 16, operated by Summit Operating, is colored yellow. The
25 proposed surface location of the well is a red dot. And

1 the planned horizontal section of the well is displayed
2 as a dashed line, dashed black line. Please note that
3 the planned surface location is 603 feet from the north
4 section line. But the horizontal portion of the well
5 bore begins 500 feet south of that surface location.

6 The area colored orange corresponds to where the
7 horizontal section of the well must be to comply with
8 Utah Division of Oil, Gas and Mining location and siting
9 rules in R649-3-2. Those rules require that no portion
10 of the horizontal section be closer than 660 feet to a
11 drilling or spacing unit boundary, and no closer than
12 1320 feet to an existing vertical well producing from the
13 same formation. Again, the State 14-16 located in the
14 southwest-southwest quarter of Section 16 is operated by
15 Summit.

16 I would also like to point out and discuss wells
17 that immediately offset the subject lease. There are two
18 wells located on the east half of Section 16, the Brennan
19 Federal 4 and the 15G-16-7-21. These wells are not
20 operated by Summit. Brennan 4 was drilled and abandoned
21 in the 1950s after recovering less than 1000 barrels of
22 oil. The 15G-16-7-21 was drilled in 2006, and is a
23 low-volume producer with cumulative recovery of less than
24 4000 barrels of oil.

25 The Brennan Federal 8 and the Brennan Federal 3,

1 located immediately west of the subject lease in Section
2 17, were originally drilled and produced as vertical
3 wells before being sidetracked as horizontal wells in
4 2009 and 2010. Other wells located in Section 8 -- yes,
5 sir.

6 MR. GILL: I'm sorry. I think you answered my
7 question on No. 2. I was just trying to figure out where
8 the surface location was of those two wells. But I can
9 go back to 2 and find it. And the two --

10 CHAIRMAN JOHNSON: It's on 3.

11 MR. GILL: The dots are the same size. I
12 couldn't tell which was the surface location, and I just
13 want to slow you down until I figured that out.

14 MR. PETERSON: All right. The surface locations
15 are the dots closest to our lease. And then both of them
16 have trajectories going to the northwest.

17 Other wells located in Sections 8, 20, and 21
18 will be mentioned as they relate to expected drainage.

19 MR. SCHWENDIMAN: Mr. Peterson, are there any
20 plugged or shut-in wells depicted on this map?

21 MR. PETERSON: Yes. The Brennan Federal 13-10,
22 located in the southwest quarter of Section 10, and the
23 Brennan Federal 4, located in the northeast quarter of
24 Section 16, are plugged. The Federal 320, located in the
25 northeast quarter of Section 20, is reported as shut-in.

1 MR. SCHWENDIMAN: Mr. Peterson, why is this
2 exhibit important?

3 MR. PETERSON: It illustrates that the State
4 3H-16-7-21 well, as proposed, is in compliance with all
5 location and citing rules. The only requested rule
6 variation is a reduction of spacing from 640 to
7 320 acres.

8 MR. SCHWENDIMAN: And to the best of your
9 knowledge, is this exhibit accurate?

10 MR. PETERSON: Yes.

11 MR. SCHWENDIMAN: Okay. We'll move on to
12 Exhibit 4.

13 Mr. Peterson, do you recognize Exhibit 4?

14 MR. PETERSON: Yes.

15 MR. SCHWENDIMAN: Was this exhibit created by
16 you or under your supervision?

17 MR. PETERSON: Yes.

18 MR. SCHWENDIMAN: How was this image generated?

19 MR. PETERSON: This exhibit illustrates how
20 drainage area of a vertical well can be related to
21 drainage area of a horizontal well in the same formation.

22 MR. SCHWENDIMAN: Could you please explain
23 Exhibit 4.

24 MR. PETERSON: In the absence of directional
25 permeability information, as in our case, it is common to

1 describe the area drained by a vertical well as a
2 circular drainage pattern having a constant radius. The
3 radius, the drainage radius corresponding to that
4 drainage area, is known as the "drainage radius." As
5 shown on the illustration, the horizontal lateral in a
6 homogeneous and continuous formation is expected to drain
7 a distance from all portions of that horizontal lateral
8 end zone with the same drainage radius as would be
9 expected in a vertical well.

10 While the horizontal wells in this area are
11 relatively new and information on them is generally
12 unavailable, there is sufficient information available to
13 estimate the drainage for vertical wells in the vicinity
14 of the proposed well. So the expected drainage for the
15 proposed horizontal well can be estimated using the
16 available vertical well data.

17 Exhibit 4 illustrates that
18 vertical-to-horizontal drainage relationship.

19 MR. SCHWENDIMAN: Could you sum up why this
20 exhibit is important?

21 MR. PETERSON: It helps explain how the drainage
22 of vertical wells can apply to the expected drainage of
23 the horizontal well.

24 MR. SCHWENDIMAN: Thank you. Let's move on to
25 Exhibit 5.

1 MR. GILL: Is that the original or revised?

2 MR. SCHWENDIMAN: This would be the revised.

3 Mr. Peterson, do you recognize Exhibit 5?

4 MR. PETERSON: Yes.

5 MR. SCHWENDIMAN: Was this exhibit created by
6 you or under your supervision?

7 MR. PETERSON: Yes.

8 MR. SCHWENDIMAN: How was this image generated?

9 MR. PETERSON: The drainage radii for vertical
10 wells in the vicinity of the proposed horizontal well
11 were estimated, and the results are summarized in a
12 table. This exhibit is a copy of that table.

13 MR. SCHWENDIMAN: Okay. Would you please
14 explain Exhibit 5, specifically the numbers.

15 MR. PETERSON: Yeah. The table in this exhibit
16 shows the vertical wells in the vicinity of the proposed
17 well, the hydrocarbon pore volume completed in each well,
18 the expected ultimate recovery for each of those wells,
19 and the corresponding drainage radius for each well based
20 on a 10 percent and a 20 percent recovery factor.

21 In explanation of each parameter, the
22 hydrocarbon pore volume is estimated -- is determined,
23 actually, by multiplying the net formation thickness by
24 the formation porosity and oil saturation, all of which
25 are derived or estimated using log data. Conceptually,

1 the hydrocarbon pore volume can be thought of as the
2 height of an oil tank representing each well after
3 mathematically removing the co-existing rock and water.

4 The estimated ultimate recovery for each well is
5 based on the historic and projected production. As the
6 name implies, this parameter is the total oil each of
7 those wells is expected to produce over its economic
8 life.

9 For the two vertical wells in Section 17 that
10 have been sidetracked with horizontal laterals, only the
11 oil recovery projected from the vertical well is included
12 in the listed expected ultimate recovery value.

13 A relatively small portion of the oil originally
14 existing within a drainage area is actually ever
15 recovered. And the fraction of the oil-in-place that is
16 recovered is termed the "recovery factor." This factor
17 is very difficult to quantify for a given reservoir. But
18 from my experience, it is expected to range from
19 approximately 10 percent to 20 percent for the producing
20 formation under the subject lands.

21 So having estimated the oil column height and
22 the projected recovery, the drainage area and
23 corresponding drainage radius was computed for each well
24 in the vicinity of our lease at the high and low value of
25 the range of what I consider reasonable recovery factors.

1 Those computed drainage radii range from 231 to 1987 feet
2 and average approximately 1040 feet for the most
3 conservative 10 percent recovery factor.

4 MR. GILL: I have a question when you are
5 through -- when you get to a good point.

6 MR. SCHWENDIMAN: Go ahead.

7 MR. PETERSON: Okay.

8 MR. GILL: I notice your hydrocarbon pore
9 volume. Where do you inject permeability, and what kind
10 of numbers are you seeing in terms of permeability?

11 MR. PETERSON: Permeability doesn't factor into
12 the hydrocarbon pore volume. Permeability would
13 factor --

14 MR. GILL: It would go to a recovery factor.

15 MR. PETERSON: It would go into a recovery
16 factor. And in this case, we don't have any good
17 database for recovery factor. Like I said, we have to go
18 off experience and what would be expected from these and
19 try to use conservative values that seem reasonable.
20 Because permeability certainly would factor in --
21 relative permeability factor, especially, would factor
22 into that. But rate doesn't factor into this, other than
23 in calculating your EUR, of course.

24 MR. GILL: Do you consider this pool that's
25 being spaced a tight formation?

1 MR. PETERSON: There are intervals in the area
2 being pooled that can be considered tight, others not.
3 The limestones being targeted by the horizontal wells are
4 not so tight as some of the sand intervals in the
5 geologic section.

6 MR. GILL: So you'll have natural
7 permeability --

8 MR. PETERSON: You will have natural
9 permeability.

10 MR. GILL: -- that you are going to be using in
11 the ultimate recovery for this well?

12 MR. PETERSON: Yes, that is correct.

13 MR. GILL: That's all I have.

14 MR. SCHWENDIMAN: Mr. Peterson, based on your
15 projections in this table as to the drainage radius, what
16 would be your best projection for the proposed well?

17 MR. PETERSON: The data indicates that the
18 horizontal lateral would drain approximately 700 to
19 1000 feet. My expectation of drainage radius would be
20 closer to the lesser of the two values.

21 MR. SCHWENDIMAN: And this would be entirely
22 within the 320 acres?

23 MR. PETERSON: That is correct.

24 MR. SCHWENDIMAN: In your professional opinion,
25 would the proposed horizontal well drain any of the

1 leases around Summit's lease?

2 MR. PETERSON: No.

3 MR. SCHWENDIMAN: To the best of your knowledge,
4 is this exhibit accurate?

5 MR. PETERSON: Yes.

6 MR. SCHWENDIMAN: In your professional opinion,
7 why should this Board grant a 320-acre spacing unit for a
8 proposed horizontal well?

9 MR. PETERSON: Because it will allow the most
10 efficient recovery of oil from the subject lands. And if
11 not granted, the state of Utah's mineral owner and the
12 working interest owners would not be allowed to fully
13 benefit from this asset.

14 MR. SCHWENDIMAN: In your professional opinion,
15 will this proposed horizontal well prevent waste?

16 MR. PETERSON: Yes.

17 MR. SCHWENDIMAN: In your opinion, will this
18 proposed horizontal well protect correlative rights?

19 MR. PETERSON: Yes.

20 MR. SCHWENDIMAN: And in your opinion, will this
21 proposed well be an efficient use of Utah's resources?

22 MR. PETERSON: Yes.

23 MR. SCHWENDIMAN: Were the documents presented
24 as exhibits created in preparation of this hearing or in
25 the ordinary course of business?

1 MR. PETERSON: Yes.

2 MR. SCHWENDIMAN: Mr. Chairman, I would now ask

3 that the exhibits listed Petitioner Exhibits 1 through 5

4 be admitted into the record.

5 CHAIRMAN JOHNSON: And that's --

6 MR. SCHWENDIMAN: -- revised 5.

7 CHAIRMAN JOHNSON: -- revised Exhibit 5?

8 MR. SCHWENDIMAN: Revised Exhibit 5, yes.

9 CHAIRMAN JOHNSON: Ms. Lewis?

10 MS. LEWIS: No objections to the exhibits.

11 CHAIRMAN JOHNSON: Does the Board have any

12 objections or questions?

13 Then those are admitted.

14 MR. SCHWENDIMAN: Thank you, Mr. Chairman.

15 That is all the questions I have for Mr.

16 Peterson at this time.

17 CHAIRMAN JOHNSON: Ms. Lewis, do you have

18 questions for Mr. Peterson?

19 MS. LEWIS: The Division would like to refer to

20 its staff, Mr. Dustin Doucet, for the questions.

21 CHAIRMAN JOHNSON: Mr. Doucet.

22 CROSS-EXAMINATION

23 BY MR. DOUCET:

24 MR. DOUCET: Dustin Doucet, petroleum engineer

25 for the Division. Just got a couple questions.

1 First of all, on Exhibit 3 you are depicting
2 that you are basically going to be drilling down the
3 center. I guess the first question: Is that the intent,
4 is to, essentially, drill your horizontal lateral down
5 the center of that 320-acre...

6 MR. PETERSON: That is our intent. Of course,
7 that can deviate a little in the operation practice --

8 MR. DOUCET: And I believe you said on here,
9 also, that you were going to adhere to the 660-foot
10 setback. Is that accurate?

11 MR. PETERSON: Yes, that is accurate as depicted
12 by -- the orange is actually -- the outer boundary of
13 that orange area is 660 feet from the lease boundary.

14 MR. DOUCET: So you never get closer than 660
15 feet to the offsetting units or leases?

16 MR. PETERSON: No. We never would get closer
17 than that 660-foot offset.

18 MR. DOUCET: Then on Exhibit 5, on the Brennan
19 Federal No. 3, that drainage radius is considerably
20 higher than the rest. Any explanation as to why that is?

21 MR. PETERSON: Again, that is a well we do not
22 operate. And that well happens to be held confidential
23 at this time because it was sidetracked as a deviated
24 well quite recently -- well, a little bit over a year
25 ago. So all of the records for that well are still held

1 confidential. I was working off of old logs and trying
2 to be as conservative as I could. That well has produced
3 a long time. You'll notice it has recovered a lot of
4 oil.

5 And, of course, the other factor that goes into
6 it is that hydrocarbon pore volume, which I
7 conservatively estimated from old microfiche logs, which
8 may or may not be accurate. So I took a very
9 conservative stance.

10 I, personally, would not expect that drainage
11 radius to be as high as shown here. I think that's a
12 factor of the data that I had available and me trying to
13 keep it as conservative as possible.

14 MR. DOUCET: Okay. Thanks.

15 MS. LEWIS: Division has no further questions.

16 CHAIRMAN JOHNSON: Does the Board have any
17 questions for Mr. Peterson?

18 Mr. Schwendiman, do you have any redirect
19 questions for Mr. Peterson?

20 MR. SCHWENDIMAN: No, Mr. Chairman.

21 CHAIRMAN JOHNSON: Thank you.

22 Thank you, Mr. Peterson.

23 MR. SCHWENDIMAN: I'd now like to have Mr. Carl
24 Kendell testify.

25 CARL F. KENDELL,

1 having been first duly sworn,
2 was examined and testified as follows:

3 DIRECT EXAMINATION

4 BY MR. SCHWENDIMAN:

5 MR. SCHWENDIMAN: Mr. Kendell, would you please
6 state your full name for the record.

7 MR. KENDELL: Carl P. Kendell.

8 MR. SCHWENDIMAN: Are you affiliated with Summit
9 Operating, and if so, how?

10 MR. KENDELL: Yes, I am. I'm employed -- been
11 employed as a geologist for Summit for the past 13
12 months.

13 MR. SCHWENDIMAN: Would you please briefly
14 describe your responsibilities with Summit Operating?

15 MR. KENDELL: I evaluate producing properties
16 and outside-generated drilling prospects, as well as
17 generate in-house drilling prospects myself.

18 MR. SCHWENDIMAN: Could you please provide a
19 brief explanation of your educational background and
20 experience as a geologist?

21 MR. KENDELL: I've obtained a bachelor of
22 science degree in geology from Weber State University and
23 did a year of graduate studies in geology at Montana
24 State University, and have been employed continuously for
25 the past 38 years as a petroleum geologist.

1 MR. SCHWENDIMAN: Are you a licensed geologist,
2 and if so, where?

3 MR. KENDELL: I'm licensed in the states of Utah
4 and Wyoming.

5 MR. SCHWENDIMAN: Have you ever testified before
6 any courts or state boards regarding geology?

7 MR. KENDELL: I've testified before regulatory
8 boards in the states of Utah, Wyoming, Montana, and North
9 Dakota.

10 MR. SCHWENDIMAN: And are you familiar with the
11 subject lands of Summit's application?

12 MR. KENDELL: Yes.

13 MR. SCHWENDIMAN: Mr. Chairman, I would ask this
14 Board to recognize Mr. Kendell as an expert in the field
15 of geology.

16 CHAIRMAN JOHNSON: Ms. Lewis?

17 MS. LEWIS: No objections.

18 CHAIRMAN JOHNSON: Does the Board have any
19 objections?

20 Okay. We'll recognize Mr. Kendell as an expert.

21 MR. SCHWENDIMAN: Thank you, Mr. Chairman. We
22 would like to start with Exhibit 6.

23 Mr. Kendell, do you recognize Exhibit 6?

24 MR. KENDELL: Yes.

25 MR. SCHWENDIMAN: Was this exhibit created by

1 you or under your supervision?

2 MR. KENDELL: Yes, it was.

3 MR. SCHWENDIMAN: How was this image generated?

4 MR. KENDELL: This image is generated from the
5 use of well logs and put into a geographics -- geologic
6 mapping program, and constructed by using that data to
7 create two separate geologic components of this area as
8 illustrated on this exhibit.

9 MR. SCHWENDIMAN: And would you please explain
10 this exhibit to the Board.

11 MR. KENDELL: The first of the components is
12 structural. It's illustrated by the thin black lines
13 that go from the upper right to the lower left,
14 generally. This is the TGR-3 structure. It's about
15 600 feet vertically above the G1 limestone, which is
16 illustrated, which I'll discuss in a moment.

17 The structure component in here is on 100-foot
18 contours and dips to the northwest at a fairly regular
19 250 to 150 feet per mile, and shows a mild syncline in
20 here.

21 The purpose of including this in the exhibit is
22 to show that the structural component there isn't really
23 significant in trapping this accumulation. It's a pure
24 stratigraphic trap.

25 The second component is the G1 limestone

1 isopach, which is illustrated in the red contours and is
2 filled in with yellow. This is a prime horizontal
3 producing zone in the areas. It's a thin limestone.
4 Virtually all of the wells in the Brennan Bottoms unit to
5 the west of the subject lease were drilled and completed
6 in this zone, many of which are producing very nicely.
7 This exhibit shows that we basically would like to
8 continue that development to the east by one more.

9 This is a gross isopach rather than net. One of
10 the reasons for that is, as Mr. Peterson alluded to,
11 these well logs have quite a vast assortment of quality
12 since this area was originally developed and began to be
13 developed in the 1950s, and various vintages of logs
14 occurring here. Some are pretty good quality, and a lot
15 of them aren't.

16 MR. SCHWENDIMAN: Approximately what depth is
17 this zone?

18 MR. KENDELL: Averages about 7000 feet in this
19 area.

20 MR. SCHWENDIMAN: So the yellow area is
21 approximately 7000 feet below the surface?

22 MR. KENDELL: Yes.

23 MR. SCHWENDIMAN: And as you stated, there are
24 producing horizontal wells in this zone?

25 MR. KENDELL: Yes.

1 MR. SCHWENDIMAN: Why, in your opinion, is this
2 exhibit important?

3 MR. KENDELL: It's important to show that this
4 zone that produces in the immediate area is present
5 underneath this subject lease. Also, there is a green
6 line labeled "A-A prime" here that is shown in the
7 subsequent exhibit that will be a cross section and will
8 verify that contention.

9 MR. SCHWENDIMAN: To the best of your knowledge,
10 is this exhibit accurate?

11 MR. KENDELL: Yes.

12 MR. SCHWENDIMAN: We'd like to move on to
13 Exhibit 7.

14 Mr. Kendell, do you recognize Exhibit 7?

15 MR. KENDELL: Yes.

16 MR. SCHWENDIMAN: Was this exhibited created by
17 you or under your supervision?

18 MR. KENDELL: Yes, it was.

19 MR. SCHWENDIMAN: How was this image generated?

20 MR. KENDELL: It was generated in the same
21 fashion as the previous exhibit, on a geographics mapping
22 program.

23 MR. SCHWENDIMAN: Can you please explain
24 Exhibit 7 to the Board?

25 MR. KENDELL: This exhibit has the same

1 structural map that's on the previous exhibit. In
2 addition, the H4A limestone isopach is include. This is
3 a second thin limestone zone that produces in this area.
4 It's about 250 feet deeper vertically than the previous
5 G1 zone. This zone is producing in the two wells, in the
6 two horizontal wells in the Johnson Bottom unit, shown in
7 Sections 21 and 22 that goes down into Section 26, I
8 think.

9 MR. SCHWENDIMAN: To sum up for the Board, the
10 yellow area is approximately how much deeper than the
11 previous exhibit?

12 MR. KENDELL: About 250 feet, vertical feet,
13 deeper.

14 MR. SCHWENDIMAN: And there are producing
15 horizontal wells in this zone as well?

16 MR. KENDELL: Yes, there are. The next exhibit
17 will show their relationship to those and other producing
18 sandstone zones within this interval.

19 MR. SCHWENDIMAN: To the best of your knowledge,
20 is this exhibit accurate?

21 MR. KENDELL: Yes.

22 MR. SCHWENDIMAN: We'd like the move on to
23 Exhibit 8.

24 MR. GILL: Can I ask a couple of questions?

25 CHAIRMAN JOHNSON: Yes.

1 MR. GILL: It's been a long time since we've
2 sign a stratigraphic trap. I'm just kind of having fun
3 with this, but what was the depositional characteristics
4 that caused this? And then is it just a general uplift
5 in the area? What is it that's -- just a little more
6 general background.

7 MR. KENDELL: Okay. This is in the Lower Green
8 River, the Douglas Creek member in the Lower Green River
9 Formation, which was deposited in Lake Uinta, occupied an
10 area somewhat larger than the current Uinta Basin -- went
11 over into the Sanpete Valley and some of that area.

12 This lake at this time was fairly shallow.
13 There's sandstones deposit from shoreline bars that moved
14 out here. Also, in the case of these two particular
15 zones that we've illustrated here, they're actually
16 limestones that are oolitic, much like we see forming in
17 the Great Salt Lake today. That means they were shallow
18 shells that form on the bottoms. And they have little
19 round fossils in them called ostricods, either an
20 ostricod or oolitic limestones. They are quit thin,
21 which makes them quite an appropriate use in horizontal
22 drilling methods because the drill bit tends to stay
23 within the porosity if you've got a long ways to drain.
24 These thin limestones tend to not drain a great distance
25 otherwise.

1 As Mr. Peterson alluded to, the permeability
2 varies from place to place in this horizontal well. You
3 can pick up the sweet spots as well as the tiger spots.
4 That's the concept here. I hope that wasn't too long
5 winded.

6 MR. GILL: That's just perfect. Thanks.

7 Thank you, Mr. Chairman.

8 CHAIRMAN JOHNSON: Go ahead.

9 MR. SCHWENDIMAN: We'll now move on to
10 Exhibit 8.

11 Mr. Kendell, do you recognize Exhibit 8?

12 MR. KENDELL: Yes.

13 MR. SCHWENDIMAN: Was this exhibit created by
14 you or under your supervision?

15 MR. KENDELL: Yes, it was.

16 MR. SCHWENDIMAN: How was this image generated?

17 MR. KENDELL: It was generated under the
18 geographics cross section program with rasterized logs
19 that are imported into that.

20 MR. SCHWENDIMAN: Could you please explain
21 Exhibit 8 to the Board?

22 MR. KENDELL: Exhibit 8 shows Douglas Creek
23 member of the Lower Green River Formation. It's about
24 600 feet thick between the Douglas Creek and the top of
25 the Wasatch Formation. That's illustrated in red.

1 The G1 limestone and the H4A limestones, which
2 were illustrated in the two previous exhibits in map
3 view, were shown -- on the correlation logs, it shows
4 their relationship to one another within Douglas Creek.

5 The little square red markers on the right-hand
6 side of each log shows where those wells were perforated
7 in the vertical wellbores. And as you can see, in all
8 four of these wells, those two limestones were perforated
9 and produce from those wellbores, as well as some other
10 zones in between.

11 The main purpose of this exhibit is to show that
12 these two zones occur under the subject lease, the Summit
13 well being the third from the right. The State, the
14 14-16, we expect to encounter those as we drill into
15 this. Our intent is to drill a vertical well, and log
16 it, and look at the nature of these and make an informed
17 decision on which zone to go horizontally in.

18 MR. SCHWENDIMAN: So is your professional
19 opinion that you would find recoverable hydrocarbons in
20 either, if not both, of these zones?

21 MR. KENDELL: Yes.

22 MR. SCHWENDIMAN: To the best of your knowledge,
23 is this exhibit accurate?

24 MR. KENDELL: Yes.

25 MR. SCHWENDIMAN: We'd like to move on to the

1 last exhibit, Exhibit 9.

2 Mr. Kendell, do you recognize Exhibit 9?

3 MR. KENDELL: Yes.

4 MR. SCHWENDIMAN: Was this exhibit created by
5 you or under your supervision?

6 MR. KENDELL: Yes, it was.

7 MR. SCHWENDIMAN: How was this image generated?

8 MR. KENDELL: Generated with a raster log
9 imported in the geographics program and illustrated as we
10 see it.

11 MR. SCHWENDIMAN: Would you please explain
12 Exhibit 9 to the Board.

13 MR. KENDELL: It's basically a large version of
14 the Summit Operating 14-16 well from the previous
15 exhibit. The reason for this exhibit is to show the
16 interval which we would like to have approval to drill
17 horizontally in; that is, the Douglas Creek member of the
18 Green River Formation. Both of these subject zones are
19 embedded within that formation. If at some point it
20 seems to be the right thing to do to stimulate these,
21 this will allow us to do so without any further Board
22 action if we're approved to drill a horizontal well in
23 this area without exceeding our authority.

24 MR. SCHWENDIMAN: So using this exhibit, in the
25 formation that Summit wishes to drill to, you believe

1 there are recoverable hydrocarbons?

2 MR. KENDELL: Yes.

3 MR. SCHWENDIMAN: To the best of your knowledge,
4 is this exhibit accurate?

5 MR. KENDELL: Yes.

6 MR. SCHWENDIMAN: In your professional opinion,
7 why should this Board grant a 320-acre spacing and
8 drilling unit for the proposed horizontal well?

9 MR. KENDELL: It would be the best way to get an
10 efficient recovery in here that will prevent waste and
11 also protect correlative rights.

12 MR. SCHWENDIMAN: So it is your opinion this
13 will prevent waste and protect correlative rights?

14 MR. KENDELL: Yes, it is.

15 MR. SCHWENDIMAN: In your opinion, will this
16 horizontal well be an efficient use of Utah's resources?

17 MR. KENDELL: Yes.

18 MR. SCHWENDIMAN: Were the documents presented
19 as exhibits created in preparation of this hearing or in
20 the ordinary course of business?

21 MR. KENDELL: Yes, they were.

22 MR. SCHWENDIMAN: Mr. Chairman, I would now ask
23 that the exhibits labeled Petitioner Exhibits 6 through 9
24 be admitted into the record.

25 CHAIRMAN JOHNSON: Ms. Lewis?

1 MS. LEWIS: No objections to the exhibits.

2 CHAIRMAN JOHNSON: Does the Board have any
3 objections or questions?

4 Then we will admit Petitioner's Exhibits 6
5 through 9.

6 MR. SCHWENDIMAN: Thank you, Mr. Chairman. That
7 is all the questions I have for Mr. Kendell at this time.

8 CHAIRMAN JOHNSON: Ms. Lewis.

9 MS. LEWIS: The Division has a few questions.

10 CROSS-EXAMINATION

11 BY MR. HILL:

12 MR. HILL: Brad Hill, oil and gas permitting
13 manager for the Division.

14 Mr. Kendell, maybe I just missed this, but on
15 Exhibits 6 and 7 pertaining to your isopach portions of
16 those exhibits, are those numbers -- is that gross
17 isopach or is that based on some net porosity?

18 MR. KENDELL: They're gross. Because the, as I
19 mentioned, quality of the logs in here don't allow a good
20 net evaluation over the entire area.

21 MR. HILL: Okay. Thank you.

22 On Exhibit 9, the illustration shows a proposed
23 spaced interval. Just for sake of definition, could you
24 define that proposed interval by footages as seen in the
25 Summit Operating State 14-16?

1 MR. KENDELL: Okay. I'm not sure my bifocals
2 are good enough to pick them off of the log.

3 Can you see those, Ellis?

4 MR. PETERSON: No. We can walk next door and
5 look at the logs on record and supply that.

6 MR. KENDELL: That's a good question. I'm not
7 sure. Under testimony, I don't want to take a guess at
8 them from the exhibit. They're a little small.

9 MR. HILL: I'd be okay if the Board approves
10 this, and that those footages be included in an order.

11 CHAIRMAN JOHNSON: I think that's a good
12 suggestion, Mr. Hill.

13 So Mr. Kendell, you'll get that information to
14 the Division, and the Division will forward it to the
15 Board.

16 MR. KENDELL: Right away.

17 CHAIRMAN JOHNSON: Thank you.

18 MR. HILL: That's all I've got.

19 MS. LEWIS: No further questions.

20 CHAIRMAN JOHNSON: Does the Board have questions
21 for Mr. Kendell?

22 Thank you, Mr. Kendell.

23 Mr. Schwendiman, do you have any redirect for
24 Mr. Kendell?

25 MR. SCHWENDIMAN: No, Mr. Chairman.

1 CHAIRMAN JOHNSON: Then go ahead, Mr.

2 Schwendiman.

3 MR. SCHWENDIMAN: Thank you. In conclusion,
4 Mr. Chairman and Members of the Board, Summit believes
5 that a horizontal well in either of these zones is a
6 highly efficient and effective way to get to the
7 recoverable hydrocarbons, and the spacing for a
8 horizontal well in Utah is 640 acres. Therefore, Summit
9 would like the unit to be reduced to 320 acres, which
10 would encompass the entire lease that Summit has on
11 Section 16, Township 7 South, Range 21 East, Salt Lake
12 Meridian, Uintah County, Utah.

13 CHAIRMAN JOHNSON: Thank you.

14 MR. GILL: Mr. Chairman --

15 CHAIRMAN JOHNSON: Let's let Ms. Lewis --

16 Ms. Lewis, go ahead.

17 MS. LEWIS: The Division would like to have a
18 couple questions for you.

19 We'd like to present Mr. Clint Dworshak, the
20 compliance manager. Mr. Dworshak has been before this
21 Board and recognized as an expert in the past. We'd ask
22 that you recognize him in this case.

23 CHAIRMAN JOHNSON: We will do that. Would you
24 like to have him sworn in?

25 MS. LEWIS: Sure.

1 THE REPORTER: Will you raise your right hand,
2 please.

3 You do solemnly swear the testimony you are
4 about to give will be the truth, the whole truth, and
5 nothing but the truth so help you God?

6 THE WITNESS: I do.

7 CLINT DWORSHAK,
8 having been first duly sworn,
9 was examined and testified as follows:

10 DIRECT EXAMINATION

11 BY MS. LEWIS:

12 MS. LEWIS: Mr. Dworshak, did you review Summit
13 Operating's spacing application?

14 MR. DWORSHAK: Yes. I was part of the staff
15 that reviewed the submitted exhibits.

16 MS. LEWIS: In that review, did you prepare a
17 memorandum summarizing your review?

18 MR. DWORSHAK: Yes. The Division staff and
19 myself put together the February 10 memo to the Board.

20 MS. LEWIS: Were there any concerns with the
21 application?

22 MR. DWORSHAK: Yes. The Division did address in
23 a memo some concerns that we had. However, we believe
24 that that has been addressed in testimony today. And
25 they did give testimony that supported the land

1 engineering and geologic exhibits and their relevance to
2 this matter. And also, they did address a concern we had
3 with the setbacks from the requested unit boundary. And
4 we believe that those setbacks are reasonable.

5 MS. LEWIS: For the record, (inaudible).

6 THE REPORTER: I'm sorry --

7 CHAIRMAN JOHNSON: Ms Lewis.

8 MS. LEWIS: I'm sorry. Microphones are the bane
9 of your existence.

10 Have they additionally addressed those setback
11 concerns?

12 MR. DWORSHAK: They have, yes.

13 MS. LEWIS: Including these additional
14 considerations discussed in testimony today, what is your
15 recommendation for Summit Operating's application?

16 MR. DWORSHAK: The Division supports the
17 recommendation, and we'd recommend that the Board
18 approves the Request.

19 CHAIRMAN JOHNSON: Mr. Schwendiman, do you have
20 any questions for Mr. Dworshak?

21 MR. SCHWENDIMAN: No, Mr. Chairman.

22 CHAIRMAN JOHNSON: Does the Board have
23 questions?

24 Okay. Thank you, Mr. Dworshak.

25 Ms. Lewis.

1 MS. LEWIS: In summary, the Division has
2 reviewed Summit Operating's spacing application and
3 recommends that it be approved.

4 CHAIRMAN JOHNSON: Thank you.

5 Mr. Schwendiman, anything else?

6 MR. SCHWENDIMAN: No, Mr. Chairman.

7 CHAIRMAN JOHNSON: Okay. Let me ask: Is there
8 anyone else present who would like to address the Board
9 regarding this matter?

10 Ms. Garrison.

11 MS. GARRISON: I'm Lavonne Garrison. I
12 represent School and Institutional Trust Lands. We are
13 the mineral owner of this section. We have reviewed the
14 exhibits, and Trust Lands, of course, always likes to
15 develop its asset to the maximum that we can. We,
16 therefore, support their application and hope the Board
17 will look favorably on an approval. Thank you.

18 CHAIRMAN JOHNSON: Thank you.

19 Anyone else?

20 What's the pleasure of the Board?

21 MR. JENSEN: Move approval.

22 MR. GILL: Mr. Chairman, if I might.

23 CHAIRMAN JOHNSON: Go ahead.

24 MR. GILL: I'd like to move that we approve the
25 application as written, ask Mr. Schwendiman to prepare

1 the Order, that the Order set forth the indicators of the
2 spaced interval, and that the Order make a specific
3 reference and finding to the 660-acre for the setback.

4 MR. SCHWENDIMAN: Okay.

5 CHAIRMAN JOHNSON: Is there a second?

6 MR. JENSEN: Second.

7 CHAIRMAN JOHNSON: Okay. Moved and seconded.

8 Is there any discussion?

9 All those in favor say "Aye."

10 THE BOARD: Aye.

11 CHAIRMAN JOHNSON: Anyone opposed?

12 So your petition is granted, Mr. Schwendiman.

13 Would you please prepare the Order?

14 MR. SCHWENDIMAN: Yes. Thank you, Mr. Chairman.

15 CHAIRMAN JOHNSON: And on behalf of the Board, I
16 would like to thank you and compliment you on the
17 preparation of your exhibits and your witnesses this
18 morning. You gave us everything we needed very
19 concisely, and we appreciate it.

20 MR. SCHWENDIMAN: Thank you, Mr. Chairman.

21 CHAIRMAN JOHNSON: Thank you.

22 MR. JENSEN: Mr. Chairman, I concur with that.

23 I think Mr. Schwendiman and your witnesses here -- I
24 realize that this has been uncontested, but I would say
25 this has been a well-presented and well-documented case,

1 certainly in the two years that I've been on the Board.
2 I commend you and Summit for a job well done.

3 MR. SCHWENDIMAN: Thank you.

4 CHAIRMAN JOHNSON: Thank you. Okay.

5 Let's take a ten-minute break, and then we will
6 move on to the rules request.

7 And then, Mr. Ward, you'll be right after that,
8 if you'd like to get set up. Let's take a ten-minute
9 break.

10 (The matter was concluded at 10:02 a.m.)

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CERTIFICATE

State of Utah)
 ss.
County of Salt Lake)

I, Michelle Mallonee, a Registered
Professional Reporter and Notary Public in and for the
State of Utah, do hereby certify:

That the proceedings of said matter was
reported by me in stenotype and thereafter transcribed
into typewritten form;

That the same constitutes a true and correct
transcription of said proceedings so taken and
transcribed;

I further certify that I am not of kin or
otherwise associated with any of the parties of said
cause of action, and that I am not interested in the
event thereof.



Michelle Mallonee

Michelle Mallonee, RPR, CSR